

[www.ringer.cc](http://www.ringer.cc)



# Steel Master

**LET'S  
BUILD**

 **RINGER**  
SCAFFOLDING + FORMWORK



HEADQUARTERS IN REGAU

**Your reliable partner for scaffolding and formwork. RINGER quality since 1944:**

- Flexible and quick solutions
- Absolute reliability
- Personal consultation on site
- Fast customised solutions
- We keep our promises
- With absolute passion
- A real family-run company

**What are we waiting for?  
Let's build.**

Our head office and the heart of the company is the 111.000 m<sup>2</sup> manufacturing and logistic facility based in Regau, Austria. Incorporating worldwide distribution to over 50 countries and providing a centre of excellence for research and development makes RINGER a formidable formwork and scaffolding manufacturer.

With subsidiaries in Slovenia, Croatia, Hungary, Czech Republic and Germany, RINGER provides first class design solutions and on-site supervision for the most complex of projects.

Supporting international customers worldwide makes RINGER the ideal partner for all construction needs.





## Master wall formwork for your construction site

RINGER WALL FORMWORK SYSTEMS ARE A MATCH FOR THE TOUGHEST APPLICATIONS. THE MASTER SYSTEM, AVAILABLE IN STEEL AND ALUMINUM, SAVES RESOURCES, TIME AND MONEY ON THE CONSTRUCTION SITE.

### Steel Master System

- Very extensive variety of panels
- Efficient and flexible
- Large-surface forming using crane
- Compatible with Alu Master and Master PRO



## Steel Master

TOUGH, FLEXIBLE AND ROBUST.  
OUR HIGH-PERFORMANCE STEEL FRAME  
FORMWORK FOR LARGE-SURFACE  
FORMING WITH THE USE OF A CRANE.

The Steel Master is suitable for the toughest and quickest applications with a maximum fresh concrete pressure of  $80\text{kN/m}^2$ .

This system is distinguished by the wall heights up to 3.30m without extension and a perfect concrete finish.

A variety of panel sizes and the compatibility with the entire range of accessory ensure flexible use on your construction site.

# Product features

## Steel Master

### > Performance

- 80 kN/m<sup>2</sup> concrete pressure

### > Versatility

- Panel height: 1.35m / 2.70m / 3.30m
- Panel width: 0.25m / 0.30m / 0.45m / 0.50m / 0.55m  
0.60m / 0.90m / 1.35m / 2.40m / 2.70m

### > To be handled with crane

### > Compatible with Alu Master and Master PRO

### > Stable and robust construction

- Wall heights up to 3.30m without extension
- High quality hot dip galvanization
- Easy cleaning

### > Maximum dimensional stability

- Suitable for the toughest applications
- Increased service life

### > Outstanding concreting results

- Only 2 anchors required for up to 3.15m height
- High quality plywood (phenolic coated, plastic, Alkus)

# Quality is in the detail

## Steel Master



### For the toughest applications

The profiles of the frame are made of rolled fine-grained steel. They are particularly dimensionally stable, torsion-resistant and durable. The hot dip galvanized panels are designed for a maximum fresh concrete pressure of 80 kN/m<sup>2</sup>.



### Improved handling

The handles are welded to the functional profile and thus enable secure and comfortable formwork panel handling.



### Hot dip galvanized steel frames

The frames of the formwork panels are hot dip galvanized to a high standard of quality. This guarantees a long service life even in the toughest applications.



### Functional profile

Functional profiles are welded to the framework to ensure its rigidity. These are designed such that accessory parts like push-pull props, brackets and walers can be placed in any desired position.



### **Manual connection**

The robust forged steel uni clamp makes the perfect inter-panel connection. Due to integrated clamp wedge, it can be mounted and locked single-handedly.



### **Aligning clamp**

With its aligning effect, the aligning clamp ensures perfect connection of the panels. In addition it enables timber and compensation infills up to 10cm.



### **Quick repositioning**

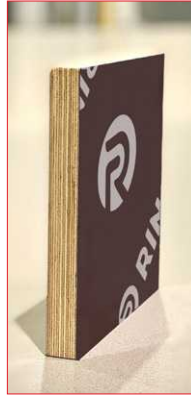
The Master crane hooks serve for a quick and secure repositioning method of panels or panel assemblies.



### **Effortless setup**

The notched panel profile allows easy set up and stripping of the formwork using an alignment tool.

# Plywood suitable for perfect concreting results



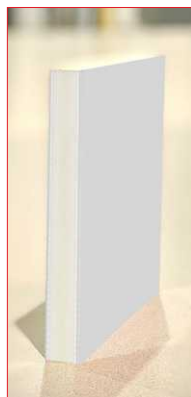
## Phenolic coated plywood

- Sturdy multi-layered board of cross-glued birch wood, 18mm thick
- Double-side phenolic resin sealing [220g/m<sup>2</sup>]
- Edges sealed with water resistant varnish
- Smooth surface for high quality fair-faced concrete finish
- Excellent strength to weight ratio
- Simple recycling



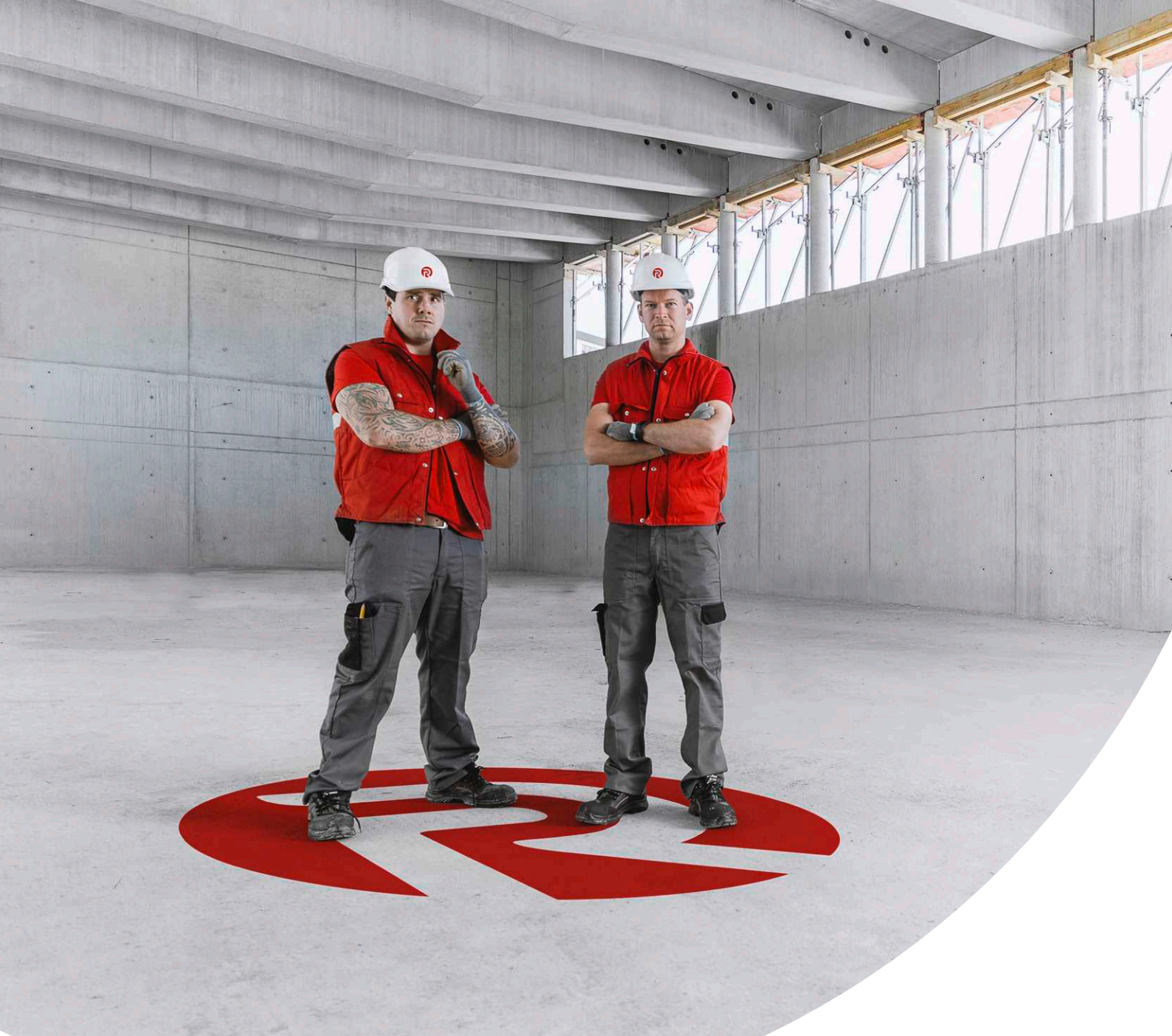
## Plastic coated plywood

- Sturdy multi-layered board from cross-glued birch wood, 18mm thick
- Double-side plastic coating [1.8mm]
- Resistant to chemicals and UV
- Easy nailing, no fragmentation
- Maximum abrasion resistance, no jolting marks
- No onion effect & no embrittlement
- No moisture penetration of the wood core
- Simple recycling



## Solid-plastic plywood (ALKUS)

- Alkus solid plastic plywood, 19mm thick
- No moisture absorption
- More than 1000 applications
- No shrinking, swelling or rotting
- No rippling or discolouration of the concrete
- High UV resistance and abrasion resistance
- High resistance to acids, alkalis and chemicals
- Easy nailing & simple repairs
- Perfect fair-faced concrete quality
- Easy and fast cleaning using the high pressure cleaner



**RINGER QUALITY**  
**SINCE 1944**

**LET'S  
BUILD**

# Comprehensive configuration

Flexible in use



Up to 10m pour heights are not a problem with the Steel Master



Effective forming using the crane





**Radius formwork**

Ideal in combination with the circular forming plates



**Columns**

Forming of columns with uni panels

Ready-to-assemble concreting platforms serve for the optimal on-site safety



**Safety**



**Panel heights up to 3.3 meter**

For wall heights up to 3.15 m only two anchor series are required

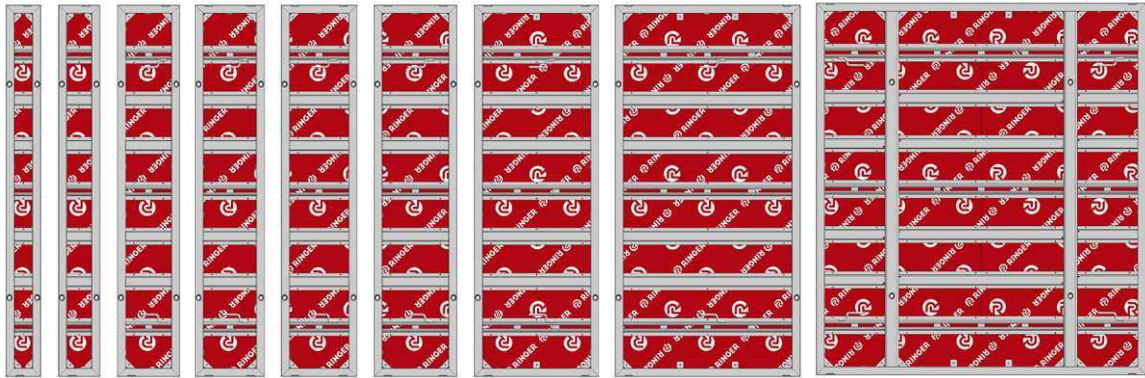
# Article list

## Steel Master

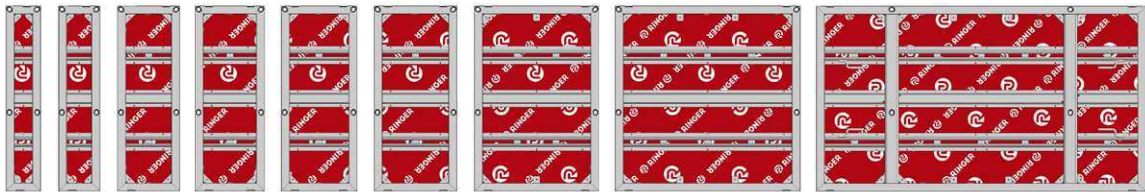
330



270



135



25

30

45

50

55

60

90

135

240

## Panel height 3.30m (plastic coated plywood)

Art. No.	Description	m <sup>2</sup>	Weight	Art. No.	Description	Weight
10002304	Panel 330/270	8.91m <sup>2</sup>	525.0 kg	10004102	Outside corner 330	47.0 kg
10003099	Panel 330/240	7.92m <sup>2</sup>	497.0 kg	10004197	Inside corner 330/30/30	130.0 kg
10001169	Panel 330/135	4.45m <sup>2</sup>	244.0 kg	10000698	Hinged outside corner 330/6/6	70.0 kg
10003104	Panel 330/90	2.97m <sup>2</sup>	178.0 kg	10002038	Hinged inside corner 330/30/30	155.0 kg
10003103	Panel 330/60	1.98m <sup>2</sup>	136.0 kg	10001199	Compensation panel 330/10	19.0 kg
10003102	Panel 330/55	1.82m <sup>2</sup>	129.0 kg	10003916	Compensation panel 330/5	17.0 kg
10000959	Panel 330/50	1.65m <sup>2</sup>	123.0 kg	10001198	Compensation panel 330/3	14.5 kg
10003101	Panel 330/45	1.48m <sup>2</sup>	114.0 kg	10001197	Compensation panel 330/2	13.0 kg
10003100	Panel 330/30	0.99m <sup>2</sup>	94.0 kg	10004358	Stripping corner 330/30/30	251.0 kg
10004403	Panel 330/25	0.83m <sup>2</sup>	90.0 kg			
10004199	Uni-Panel 330/90	2.97m <sup>2</sup>	206.0 kg			

## Panel height 2.70m (plastic coated plywood)

Art. No.	Description	m <sup>2</sup>	Weight	Art. No.	Description	Weight
10001161	Panel 270/240	6.48m <sup>2</sup>	394.0 kg	10003792	Outside corner 270	38.0 kg
10004144	Panel 270/135	3.65m <sup>2</sup>	193.0 kg	10003106	Inside corner 270/30/30	103.0 kg
10001113	Panel 270/90	2.43m <sup>2</sup>	144.0 kg	10000427	Hinged outside corner 270/6/6	57.0 kg
10004200	Panel 270/60	1.62m <sup>2</sup>	110.0 kg	10000426	Hinged inside corner 270/30/30	124.0 kg
10004201	Panel 270/55	1.48m <sup>2</sup>	101.0 kg	10003795	Compensation panel 270/10	15.0 kg
10004202	Panel 270/50	1.35m <sup>2</sup>	94.0 kg	10003794	Compensation panel 270/5	14.0 kg
10001164	Panel 270/45	1.22m <sup>2</sup>	89.0 kg	10003968	Compensation panel 270/3	11.2 kg
10001163	Panel 270/30	0.81m <sup>2</sup>	76.0 kg	10003967	Compensation panel 270/2	10.7 kg
10001162	Panel 270/25	0.68m <sup>2</sup>	69.0 kg	10004356	Stripping corner 270/30/30	202.0 kg
10003107	Uni-Panel 270/90	2.43m <sup>2</sup>	166.0 kg	10004009	Stripping panel 270/10	49.5 kg

## Panel height 1.35m (plastic coated plywood)

Art. No.	Description	m <sup>2</sup>	Weight	Art. No.	Description	Weight
10004461	Panel 135/240	3.24m <sup>2</sup>	213.0 kg	10003498	Outside corner 135	20.0 kg
10004203	Panel 135/135	1.82m <sup>2</sup>	103.0 kg	10003105	Inside corner 135/30/30	54.0 kg
10001168	Panel 135/90	1.22m <sup>2</sup>	77.0 kg	10000697	Hinged outside corner 135/6/6	26.0 kg
10001167	Panel 135/60	0.81m <sup>2</sup>	60.0 kg	10000428	Hinged inside corner 135/30/30	68.0 kg
10001166	Panel 135/55	0.74m <sup>2</sup>	56.0 kg	10001397	Compensation panel 135/10	8.5 kg
10001165	Panel 135/50	0.68m <sup>2</sup>	51.0 kg	10001396	Compensation panel 135/5	7.5 kg
10004204	Panel 135/45	0.61m <sup>2</sup>	48.0 kg	10004357	Stripping corner 135/30/30	107.0 kg
10004205	Panel 135/30	0.41m <sup>2</sup>	76.0 kg	10004033	Stripping Panel 135/10	26.0 kg
10004206	Panel 270/25	0.34m <sup>2</sup>	39.0 kg			
10001157	Uni Panel 135/90	2.43m <sup>2</sup>	87.0 kg			

# Accessories

## Steel Master



**Uni clamp**  
friction-locked connection  
with a hammer blow



**Master aligning clamp**  
friction-locked connection  
and panel alignment up to  
10cm opening width



**Master clamp, adjustable**  
adjustment range up to  
20cm



**Master stop end coupler**  
up to 40cm wall thickness



**Combi plate DW15 / DW20**  
Tie rod DW15 / DW20



**Foundation clamp** and  
**Perforated tape** for  
foundation formwork



**Spacer tube**  
waterproof



**Master crane hook**  
Load capacity up to 1.800 kg



**Push-pull props size 1/2 / "G"**  
with extension up to 10m formwork  
height



**3S concreting platforms**  
for System Master



**Concreting platforms "L"**  
width 2.70m



**Brace frame "S"**  
incl. attachable frame up  
to 6m



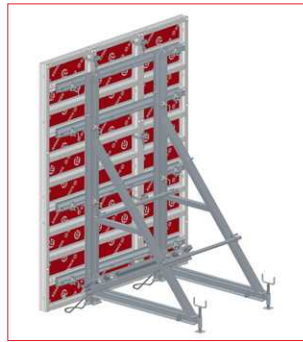
**Waler 100 and 150**



**Master uni fixing bolt and  
RS-Clamp**



**Uni-Container**  
stackable, with or without  
flap (800x1.200mm)



**Brace frame "M"**  
up to 4.5m



**Brace frame "L"**  
up to 3.0m



**Accessory box**  
stackable, e.g. also with  
pallet for formwork



**Compensation panels**  
2/3/5/10cm



**Hinged corners**  
for inside and outside



**Circular forming plate**



**Stripping corner**  
for rational internal forming  
of shafts

# Reference projects



With the 3.30m high Steel Master panels with plastic plywood, construction proceeded rapidly.



Even challenging formwork projects are easy to implement with the Steel Master.



**BV Pogrelzstrasse,  
Vienna**

The Steel Master is optimal for flexible forming and quick works.



**Residential complex  
in Mödling**

The 3.3m high Steel Master formwork with Alkus solid plastic plywood in use.

# Reference projects

Hall construction in Wels



Up to 10 meter high walls were formed within this construction project in a single cycle.



Biotopie City Wienerberg

The Steel Master with panel sizes up to 3.3 x 2.7m is optimal for large building sites.



**Circular tank  
Kundl**

In combination with the Master circular forming plate, round tanks are quickly formed. Here, in addition, combinations with Alu Master were created.



**Hermann-Glück  
Weg, Vienna**

Up to any challenge and flexible in use - optimal with the accessories from RINGER.

# LET'S BUILD



**RINGER** GmbH

A-4844 Regau  
Römerweg 9  
+43 7672 72711 - 0  
office@ringer.at  
www.ringer.cc



**RINGER**  
SCAFFOLDING + FORMWORK